

特許協力条約

PCT

EP



国際調査報告

(法8条、法施行規則第40、41条)
〔PCT18条、PCT規則43、44〕

出願人又は代理人 の書類記号 WO-R02000-3	今後の手続きについては、国際調査報告の送付通知様式(PCT/ISA/220)及び下記5を参照すること。	
国際出願番号 PCT/JP00/00635	国際出願日 (日.月.年) 04.02.00	優先日 (日.月.年) 15.02.99
出願人(氏名又は名称) ローム株式会社		

国際調査機関が作成したこの国際調査報告を法施行規則第41条(PCT18条)の規定に従い出願人に送付する。
この写しは国際事務局にも送付される。

この国際調査報告は、全部で 2 ページである。 この調査報告に引用された先行技術文献の写しも添付されている。

1. 国際調査報告の基礎

- a. 言語は、下記に示す場合を除くほか、この国際出願がされたものに基づき国際調査を行った。
 - この国際調査機関に提出された国際出願の翻訳文に基づき国際調査を行った。
- b. この国際出願は、ヌクレオチド又はアミノ酸配列を含んでおり、次の配列表に基づき国際調査を行った。
 - この国際出願に含まれる書面による配列表
 - この国際出願と共に提出されたフレキシブルディスクによる配列表
 - 出願後に、この国際調査機関に提出された書面による配列表
 - 出願後に、この国際調査機関に提出されたフレキシブルディスクによる配列表
 - 出願後に提出した書面による配列表が出願時における国際出願の開示の範囲を超える事項を含まない旨の陳述書の提出があった。
 - 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記録した配列が同一である旨の陳述書の提出があった。
- 2. 請求の範囲の一部の調査ができない(第I欄参照)。
- 3. 発明の単一性が欠如している(第II欄参照)。
- 4. 発明の名称は
 - 出願人が提出したものと承認する。
 - 次に示すように国際調査機関が作成した。
- 5. 要約は
 - 出願人が提出したものと承認する。
 - 第III欄に示されているように、法施行規則第47条(PCT規則38.2(b))の規定により国際調査機関が作成した。出願人は、この国際調査報告の発送の日から1カ月以内にこの国際調査機関に意見を提出することができる。
- 6. 要約書とともに公表される図は、
第 1 図とする。 出願人が示したとおりである。 なし
 - 出願人は図を示さなかった。
 - 本図は発明の特徴を一層よく表している。

A. 発明の属する分野の分類(国際特許分類(IPC))

Int. C1
H04N1/00, H04N1/31

B. 調査を行った分野

調査を行った最小限資料(国際特許分類(IPC))

Int. C1
H04N1/00, H04N1/04-1/207, H04N1/23-1/31
B65H5/06

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報	1926-2000年
日本国公開実用新案公報	1971-2000年
日本国実用新案登録公報	1996-2000年
日本国実用新案登録公報	1994-2000年

国際調査で使用した電子データベース(データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
X	J P, 6-178042, A (三菱電機株式会社) 24. 6月. 1994 (24. 06. 94) (ファミリー無し)	1 3
Y	J P, 5-294525, A (松下電送株式会社) 9. 11月. 1993 (09. 11. 93) (ファミリー無し)	1, 3-6
A		2, 7-12

C欄の続きにも文献が列挙されている。

パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

- 「A」特に関連のある文献ではなく、一般的技術水準を示すもの
- 「E」国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの
- 「L」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献(理由を付す)
- 「O」口頭による開示、使用、展示等に言及する文献
- 「P」国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

- 「T」国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの
- 「X」特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの
- 「Y」特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの
- 「&」同一パテントファミリー文献

国際調査を完了した日

26. 04. 00

国際調査報告の発送日

16.05.00

国際調査機関の名称及びあて先

日本国特許庁 (ISA/JP)

郵便番号 100-8915

東京都千代田区霞が関三丁目4番3号

特許庁審査官(権限のある職員)

手島聖治

5V 8110



電話番号 03-3581-1101 内線 3571

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

**NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT**

(PCT Administrative Instructions, Section 411)

Date of mailing (day/month/year) 05 April 2000 (05.04.00)
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To:

YOSHIDA, Minoru
2-32-1301, Tamatsukuri-motomachi
Tennoji-ku
Osaka-shi
Osaka 543-0014
JAPON

Applicant's or agent's file reference WO-RO2000-3	IMPORTANT NOTIFICATION
International application No. PCT/JP00/00635	International filing date (day/month/year) 04 February 2000 (04.02.00)
International publication date (day/month/year) Not yet published	Priority date (day/month/year) 15 February 1999 (15.02.99)

Applicant ROHM CO., LTD. et al

- The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
- This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
- An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
- The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
15 Febr 1999 (15.02.99)	11/35720	JP	24 Marc 2000 (24.03.00)

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer Carlos Naranjo Telephone No. (41-22) 338.83.38
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PATENT COOPERATION TREATY

PCT

INFORMATION CONCERNING ELECTED
OFFICES NOTIFIED OF THEIR ELECTION

(PCT Rule 61.3)

From the INTERNATIONAL BUREAU

To:

YOSHIDA, Minoru
 2-32-1301, Tamatsukuri-motomachi
 Tennoji-ku
 Osaka-shi
 Osaka 543-0014
 JAPON

Date of mailing (day/month/year) 17 August 2000 (17.08.00)

Applicant's or agent's file reference WO-RO2000-3
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IMPORTANT INFORMATION

International application No. PCT/JP00/00635	International filing date (day/month/year) 04 February 2000 (04.02.00)	Priority date (day/month/year) 15 February 1999 (15.02.99)
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Applicant ROHM CO., LTD. et al

1. The applicant is hereby informed that the International Bureau has, according to Article 31(7), notified each of the following Offices of its election:

EP :AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE
 National :CA,CN,KR,US

2. The following Offices have waived the requirement for the notification of their election; the notification will be sent to them by the International Bureau only upon their request:

None

3. The applicant is reminded that he must enter the "national phase" before the expiration of 30 months from the priority date before each of the Offices listed above. This must be done by paying the national fee(s) and furnishing, if prescribed, a translation of the international application (Article 39(1)(a)), as well as, where applicable, by furnishing a translation of any annexes of the international preliminary examination report (Article 36(3)(b) and Rule 74.1).

Some offices have fixed time limits expiring later than the above-mentioned time limit. For detailed information about the applicable time limits and the acts to be performed upon entry into the national phase before a particular Office, see Volume II of the PCT Applicant's Guide.

The entry into the European regional phase is postponed until 31 months from the priority date for all States designated for the purposes of obtaining a European patent.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer:

J. Zahra

Telephone No. (41-22) 338.83.38

PATENT COOPERATION TREATY

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

YOSHIDA, Minoru
 2-32-1301, Tamatsukuri-motomachi
 Tennoji-ku
 Osaka-shi
 Osaka 543-0014
 JAPON

Date of mailing (day/month/year) 17 August 2000 (17.08.00)

Applicant's or agent's file reference WO-RO2000-3
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IMPORTANT NOTICE

International application No. PCT/JP00/00635	International filing date (day/month/year) 04 February 2000 (04.02.00)	Priority date (day/month/year) 15 February 1999 (15.02.99)
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Applicant ROHM CO., LTD. et al

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:
KR,US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:
CA,CN,EP

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on
17 August 2000 (17.08.00) under No. WO 00/48385

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a **demand for international preliminary examination** must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the **national phase**, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Faxsimile No. (41-22) 740.14.35

Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP00/00635

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷

H04N1/00, H04N1/31

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷

H04N1/00, H04N1/04-1/207, H04N1/23-1/31
B65H5/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-2000	Jitsuyo Shinan Toroku Koho	1996-2000
Kokai Jitsuyo Shinan Koho	1971-2000	Jitsuyo Shinan Toroku Koho	1994-2000

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP, 6-178042, A (Mitsubishi Electric Corporation), 24 June, 1994 (24.06.94) (Family: none)	13
Y	JP, 5-294525, A (Matsushita Graphic Communication Systems, Inc.), 09 November, 1993 (09.11.93) (Family: none)	1, 3-6
A		2, 7-12

Further documents are listed in the continuation of Box C.

See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search
26 April, 2000 (26.04.00)

Date of mailing of the international search report
16 May, 2000 (16.05.00)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

特許協力条約

PCT

国際予備審査報告

(法第12条、法施行規則第56条)
(PCT36条及びPCT規則70)

出願人又は代理人 の書類記号 WO-RO2000-3	今後の手続きについては、国際予備審査報告の送付通知（様式PCT/IPEA/416）を参照すること。	
国際出願番号 PCT/JPO0/00635	国際出願日 (日.月.年) 04.02.00	優先日 (日.月.年) 15.02.99
国際特許分類 (IPC) Int. Cl' H04N1/00, H04N1/31		
出願人（氏名又は名称） ローム株式会社		

1. 国際予備審査機関が作成したこの国際予備審査報告を法施行規則第57条（PCT36条）の規定に従い送付する。

2. この国際予備審査報告は、この表紙を含めて全部で 3 ページからなる。

この国際予備審査報告には、附属書類、つまり補正されて、この報告の基礎とされた及び／又はこの国際予備審査機関に対して訂正を含む明細書、請求の範囲及び／又は図面も添付されている。
(PCT規則70.16及びPCT実施細則第607号参照)
この附属書類は、全部で 1 ページである。

3. この国際予備審査報告は、次の内容を含む。

- I 国際予備審査報告の基礎
- II 優先権
- III 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成
- IV 発明の単一性の欠如
- V PCT35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明
- VI ある種の引用文献
- VII 国際出願の不備
- VIII 国際出願に対する意見

国際予備審査の請求書を受理した日 31.05.00	国際予備審査報告を作成した日 05.02.01
名称及びあて先 日本国特許庁 (IPEA/JP) 郵便番号100-8915 東京都千代田区霞が関三丁目4番3号	特許庁審査官（権限のある職員） 手島 聖治 印
	5V 8110
	電話番号 03-3581-1101 内線 3571

I. 国際予備審査報告の基礎

1. この国際予備審査報告は下記の出願書類に基づいて作成された。(法第6条(PCT14条)の規定に基づく命令に応答するために提出された差し替え用紙は、この報告書において「出願時」とし、本報告書には添付しない。PCT規則70.16, 70.17)

出願時の国際出願書類

明細書 第 1-14 ページ、
明細書 第 _____ ページ、
明細書 第 _____ ページ、
出願時に提出されたもの
国際予備審査の請求書と共に提出されたもの
付の書簡と共に提出されたもの

請求の範囲 第 1-12 項、
請求の範囲 第 _____ 項、
請求の範囲 第 _____ 項、
請求の範囲 第 _____ 項、
出願時に提出されたもの
PCT 19条の規定に基づき補正されたもの
国際予備審査の請求書と共に提出されたもの
付の書簡と共に提出されたもの

図面 第 1-5 ページ/図、
図面 第 _____ ページ/図、
図面 第 _____ ページ/図、
出願時に提出されたもの
国際予備審査の請求書と共に提出されたもの
付の書簡と共に提出されたもの

明細書の配列表の部分 第 _____ ページ、
明細書の配列表の部分 第 _____ ページ、
明細書の配列表の部分 第 _____ ページ、
出願時に提出されたもの
国際予備審査の請求書と共に提出されたもの
付の書簡と共に提出されたもの

2. 上記の出願書類の言語は、下記に示す場合を除くほか、この国際出願の言語である。

上記の書類は、下記の言語である _____ 語である。

国際調査のために提出されたPCT規則23.1(b)にいう翻訳文の言語
 PCT規則48.3(b)にいう国際公開の言語
 国際予備審査のために提出されたPCT規則55.2または55.3にいう翻訳文の言語

3. この国際出願は、ヌクレオチド又はアミノ酸配列を含んでおり、次の配列表に基づき国際予備審査報告を行った。

この国際出願に含まれる書面による配列表
 この国際出願と共に提出されたフレキシブルディスクによる配列表
 出願後に、この国際予備審査(または調査)機関に提出された書面による配列表
 出願後に、この国際予備審査(または調査)機関に提出されたフレキシブルディスクによる配列表
 出願後に提出した書面による配列表が出願時における国際出願の開示の範囲を超える事項を含まない旨の陳述書の提出があった
 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記録した配列が同一である旨の陳述書の提出があった。

4. 補正により、下記の書類が削除された。

明細書 第 _____ ページ
 請求の範囲 第 13 項
 図面 図面の第 _____ ページ/図

5. この国際予備審査報告は、補充欄に示したように、補正が出願時における開示の範囲を越えてされたものと認められるので、その補正がされなかつたものとして作成した。(PCT規則70.2(c) この補正を含む差し替え用紙は上記1.における判断の際に考慮しなければならず、本報告に添付する。)

V. 新規性、進歩性又は産業上の利用可能性についての法第12条（PCT35条(2)）に定める見解、それを裏付ける文献及び説明

1. 見解

新規性 (N)

請求の範囲 1-12
請求の範囲 有無

進歩性 (I S)

請求の範囲 1-12
請求の範囲 有無

産業上の利用可能性 (I A)

請求の範囲 1-12
請求の範囲 有無

2. 文献及び説明 (PCT規則70.7)

文献1 J P, 6-178042, A
 文献2 J P, 5-294525, A

請求の範囲 1-12

請求の範囲 1-12 に記載された発明は、国際調査報告で引用された文献1及び文献2より新規性、進歩性を有する。

文献1に記載された第1のギヤ10a及び第2のギヤ11aは、本願発明の第1の可動歯車及び第2の可動歯車に相当する。しかし、第1のギヤ10aは原稿読取ローラ4に設けられたギヤに直接かみ合わない。また、第2のギヤ11aは記録ローラ6に設けられギヤに直接かみ合わない（図5-8）。したがって、文献1には「第1の可動歯車は第1の従動歯車に直接かみ合い可能に設けられ、第2の可動歯車は第2の従動歯車に直接かみ合い可能に設けられている」という技術手段が記載されていない。

文献2に記載された第1移動ギヤ35は記録ローラギア26に直接かみ合う。また、第2移動ギヤ36は読取ローラギア28に直接かみ合う（図2）。

しかし、第2移動ギヤ36は「第1の可動歯車」ではない。なぜなら、第2移動ギヤ36が読取ローラギア28にかみ合う時、原稿6は読取ローラギア28によって移送されないからである。原稿6は、第1移動ギヤ35が中間ギヤ29にかみ合う時に移送される（図3）。

したがって、文献1、2には上記技術手段が記載されていないから、請求の範囲1-12に記載された発明は、文献1及び文献2より新規性、進歩性を有する。

請求の範囲

1. 原稿を移送するための第1の従動歯車を有する原稿用プラテンローラと、記録紙を移送するための第2の従動歯車を有する記録紙用プラテンローラと、第1の可動歯車、第2の可動歯車および駆動源を有し、この駆動源によって発生させられる駆動力を第1の従動歯車および第2の従動歯車に伝達するための駆動機構と、を備え、

第1の可動歯車は第1の従動歯車に直接かみ合い可能に設けられ、第2の可動歯車は第2の従動歯車に直接かみ合い可能に設けられていることを特徴とする画像処理装置。

2. 原稿画像を読み取るための複数の受光素子と画像のプリントを行うための複数の印字用素子とが同一の基板の同一面側に搭載されている画像読み書き一体ヘッドを更に具備し、上記原稿用プラテンローラは、上記複数の受光素子に対向して設けられているとともに、上記記録紙用プラテンローラは、上記複数の印字用素子に対向して設けられている、請求項1に記載の画像処理装置。

3. 上記駆動機構は、上記第1の可動歯車および上記第2の可動歯車を上記第1の従動歯車および上記第2の従動歯車に選択的にかみ合わせる切換機構を備える、請求項1に記載の画像処理装置。

4. 上記切換機構は、上記第1の可動歯車を上記第1の従動歯車にかみ合わせ、同時に上記第2の可動歯車を上記第2の従動歯車から離反させるモードを達成する、請求項3に記載の画像処理装置。

5. 上記切換機構は、上記第2の可動歯車を上記第2の従動歯車にかみ合わせ、同時に上記第1の可動歯車を上記第1の従動歯車から離反させるモードを達成する、請求項3に記載の画像処理装置。

6. 上記切換機構は、上記第1の可動歯車を上記第1の従動歯車にかみ合わせ、同時に上記第2の可動歯車を上記第2の従動歯車にかみ合わせるモードを達成する、請求項3に記載の画像処理装置。

7. 上記切換機構は、上記駆動源から駆動力を受けるためのカム歯車を有するカムと、上記第1の可動歯車が取付けられ上記カムと当接可能に設けられた第1のアームと、上記第2の可動歯車が取付けられ上記カムと当接可能に設けられた第2のアームとを備え、上記カムは、上記第1のアームおよび上記第2のアームとの当接を介して上記第1の可動歯車のおよび第2の可動歯車の位置を規定する、請求項3に記載の画像処理装置。

8. 上記第1のアームは、軸部を中心として揺動可能であり、上記第1の可動歯車が設けられた第1の端部と上記カムと当接し得る第2の端部とを有している、請求項7に記載の画像処理装置。

9. 上記第2のアームは、軸部を中心として揺動可能であり、上記第2の可動歯車が設けられた第1の端部と上記カムと当接し得る第2の端部とを有している、請求項7に記載の画像処理装置。

10. 第2のアームの第2の端部はバネ付勢により常に上記カムに当接している、請求項9に記載の画像処理装置。

11. 上記駆動源は正転および逆転可能な駆動軸を有するモータであり、上記切換機構は、上記駆動軸が正転するときに上記モータの駆動力を上記カム歯車に伝達せず、上記駆動軸が逆転するときに上記駆動力を上記カム歯車に伝達してカムを回転させる、請求項7に記載の画像処理装置。

12. 上記第1のアームは、軸部を中心として揺動可能であり、上記第1の可動歯車が設けられた第1の端部と上記カムと当接し得る第2の端部とを有し、上記駆動軸が逆転するときに、上記第1のアームは、上記第2の端部と上記カムとの当接を解除し、上記第1の可動歯車が上記カム歯車にかみ合う位置に規定されるまで揺動し、上記駆動力が上記カム歯車に伝達される、請求項1-1に記載の画像処理装置。

13. (削除)

CLAIMS

1. An image processing device, comprising:

an original-document platen roller that has a first
5 driven gear and is for transporting an original document;
a recording-paper platen roller that has a second driven gear
and is for transporting recording paper; and

a drive mechanism that has a first movable gear, a second
movable gear, and a drive source and is for transmitting a
10 drive force generated by this drive source to the first driven
gear and second driven gear;

wherein the first movable gear is provided so as to be
capable of engaging directly with the first driven gear, and
the second movable gear is provided so as to be capable of
15 engaging directly with the second driven gear.

2. The image processing device according to claim 1, further
comprising an image read/write integrated head, in which a
plurality of photoreceptors for reading an original-document
20 image, and a plurality of printing elements for performing
image printing are mounted on a same side of a same base plate,
and wherein said original-document platen roller is provided
facing said plurality of photoreceptors, and said
recording-paper platen roller is provided facing said
25 plurality of printing elements.

3. The image processing device according to claim 1, wherein
said drive mechanism comprises a switching mechanism that
selectively causes said first movable gear and said second
movable gear to engage with said first driven gear and said
5 second driven gear.

4. The image processing device according to claim 3, wherein
said switching mechanism permits a mode in which said first
movable gear is caused to engage with said first driven gear,
10 and said second movable gear is simultaneously moved away from
said second driven gear.

5. The image processing device according to claim 3, wherein
said switching mechanism permits a mode in which said second
15 movable gear is caused to engage with said second driven gear,
and said first movable gear is simultaneously moved away from
said first driven gear.

6. The image processing device according to claim 3, wherein
20 said switching mechanism permits a mode in which said first
movable gear is caused to engage with said first driven gear,
and said second movable gear is simultaneously caused to
engage with said second driven gear.

25 7. The image processing device according to claim 3, wherein
said switching mechanism comprises a cam that has a cam gear
for receiving drive force from said drive source; a first arm

that is provided so as to be capable of coming into contact with said cam and on which said first movable gear is mounted; a second arm that is provided so as to be capable of coming into contact with said cam and on which said second movable gear is mounted, and wherein said cam establishes a position of said first movable gear and second movable gear through contact with said first arm and said second arm.

8. The image processing device according to claim 7, wherein
10 said first arm is capable of swinging about an axis formed by a shaft portion, and has a first end portion, on which said first movable gear is provided, and a second end portion that is capable of coming into contact with said cam.

15 9. The image processing device according to claim 7, wherein said second arm is capable of swinging about an axis formed by a shaft portion, and has a first end portion, on which said second movable gear is provided, and a second end portion that is capable of coming into contact with said cam.

20

10. The image processing device according to claim 9, wherein the second end portion of the second arm remains in continual contact with said cam by means of spring bias.

25 11. The image processing device according to claim 7, wherein said drive source is a motor that has a drive shaft capable of forward and reverse rotation, and said switching mechanism

causes the cam to rotate, without transmitting drive force of said motor to said cam gear during forward rotation of said drive shaft, or transmitting said drive force to said cam gear during reverse rotation of said drive shaft.

5

12. The image processing device according to claim 11, wherein said first arm is capable of swinging about an axis formed by a shaft portion, and has a first end portion, on which said first movable gear is provided, and a second end portion that 10 is capable of coming into contact with said cam, and wherein, during reverse rotation of said drive shaft, contact, between said second end portion of said first arm, and said cam, is broken, said first movable gear swings until a position is established in which said first movable gear engages with said 15 cam gear, and said drive force is transmitted to said cam gear.

13. An image processing device, comprising:

an original-document platen roller;
a recording-paper platen roller; and
20 a drive mechanism, that has a motor, for transmitting a drive force generated by this motor to said original-document platen roller and said recording-paper platen roller;

25 wherein said drive mechanism has a first movable gear that is capable of being displaced between a drive position in which said original-document platen roller is driven and a no-drive position in which said original-document platen

roller is not driven, and a second movable gear that is capable of being displaced between a drive position in which said recording-paper platen roller is driven and a no-drive position in which said recording-paper platen roller is not
5 driven; and

wherein said drive mechanism has a switching mechanism that maintains each of said movable gears in said drive positions or said no-drive positions during forward rotation of said motor, or selectively displaces said two movable gears,
10 by means of said motor drive force, between said drive positions and said no-drive positions during reverse rotation of said motor.

Translation
09/890634

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference WO-RO2000-3	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/JP00/00635	International filing date (day/month/year) 04 February 2000 (04.02.00)	Priority date (day/month/year) 15 February 1999 (15.02.99)
International Patent Classification (IPC) or national classification and IPC H04N 1/00, 1/31		
Applicant ROHM CO., LTD.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.
<input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).
These annexes consist of a total of <u>1</u> sheets.
3. This report contains indications relating to the following items:
I <input checked="" type="checkbox"/> Basis of the report
II <input type="checkbox"/> Priority
III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
IV <input type="checkbox"/> Lack of unity of invention
V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
VI <input type="checkbox"/> Certain documents cited
VII <input type="checkbox"/> Certain defects in the international application
VIII <input type="checkbox"/> Certain observations on the international application

Technology Center 2600
NOV 13 2001
RECEIVED

Date of submission of the demand 31 May 2000 (31.05.00)	Date of completion of this report 05 February 2001 (05.02.2001)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP00/00635

I. Basis of the report

1. With regard to the elements of the international application:*

 the international application as originally filed the description:

pages _____ 1-14 _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

 the claims:

pages _____ 1-12 _____, as originally filed

pages _____, as amended (together with any statement under Article 19)

pages _____, filed with the demand

pages _____, filed with the letter of _____

 the drawings:

pages _____ 1/5-5/5 _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

 the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

 the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

 contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. The amendments have resulted in the cancellation of: the description, pages _____ the claims, Nos. _____ 13 _____ the drawings, sheets/fig _____5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP00/00635

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-12	YES
	Claims		NO
Inventive step (IS)	Claims	1-12	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims		NO

2. Citations and explanations

Document 1: JP, 6-178042, A

Document 2: JP, 5-294525, A

Claims 1 to 12

The inventions described in claims 1 to 12 involve both novelty and an inventive step with respect to documents 1 and 2, cited in the ISR.

The first gear 10a and second gear 11a described in document 1 are equivalent to the first movable gear and second movable gear described in the present application. However, first gear 10a does not engage directly with the gear provided on manuscript reading roller 4 and second gear 11a does not engage directly with the gear provided on recording roller 6 (Figs. 5-8). Therefore, document 1 does not describe a technical means wherein "the first movable gear is installed direct-engageably with the first driven gear and the second movable gear is installed direct-engageably with the second driven gear."

In document 2, first moving gear 35 engages directly with recording roller gear 26 and second moving gear 36 engages directly with reading roller gear 28 (Fig. 2). However, second moving gear 36 is not a "first movable gear" because when second moving gear 36 engages with reading roller gear 28, manuscript 6 is not fed by reading roller gear 28. Rather, manuscript 6 is fed when first moving gear 35 engages with intermediate gear 29 (Fig. 3).

Therefore, the inventions described in claims 1 to 12 involve both novelty and an inventive step with respect to documents 1 and 2 because the technical means described above are not described in documents 1 and 2.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION
(PCT Rule 61.2)

To:
Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C.20231
ETATS-UNIS D'AMERIQUE

Date of mailing: 17 August 2000 (17.08.00)	in its capacity as elected Office
International application No.: PCT/JP00/00635	Applicant's or agent's file reference: WO-RO2000-3
International filing date: 04 February 2000 (04.02.00)	Priority date: 15 February 1999 (15.02.99)
Applicant: ONISHI, Hiroaki et al	

1. The designated Office is hereby notified of its election made:

in the demand filed with the International preliminary Examining Authority on:
31 May 2000 (31.05.00)

in a notice effecting later election filed with the International Bureau on:

2. The election was

was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer: J. Zahra Telephone No.: (41-22) 338.83.38
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